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Indiana Public Retirement System

Judges' Retirement System

Actuarial Valuation as of June 30, 2012





December 20, 2012

Board of Trustees Indiana Public Retirement System 1 North Capitol, Suite 001 Indianapolis, IN 46204

Re: Certification of the Actuarial Valuations of the Indiana Public Retirement System as of as of June 30, 2012

Dear Board of Trustees:

Actuarial valuations are performed annually for the Indiana Public Retirement System ("INPRS") defined benefit pension plans ("Plans"). The results of the latest actuarial valuations, which were prepared as of June 30, 2012, are presented in individual valuation reports for each fund and were prepared pursuant to the engagement letter between INPRS and PricewaterhouseCoopers LLP ("PwC"), dated June 7, 2010. The reports are intended to provide the Board of Trustees ("Board") with information on the funded status of the Plans, development of the contribution rates, and certain financial statement disclosure information.

Under Indiana statutes, employer contribution rates and amounts, as applicable, are adopted annually for each Plan by the Board. The contributions are actuarially determined based on the Board's funding policy and adopted actuarial assumptions. Contributions determined by the actuarial valuation become effective either twelve or eighteen months after the valuation date, depending on the applicable employer. For example, contribution rates determined by the June 30, 2012 actuarial valuation and adopted by the Board will become effective on either July 1, 2013 or January 1, 2014. If new legislation is enacted between the valuation date and the date the contributions become effective, the Board may adjust the recommended contributions before adopting them, in order to reflect this new legislation. Such adjustments are based on information supplied by the actuary.

Financing Objectives and Funding Policy

In setting contribution levels, the Board's principal objectives have been:

- To set contributions such that the unfunded actuarial accrued liability ("UAAL") will be amortized over a 30-year period.
- To set contributions such that they remain relatively level over time.

To accomplish this, the Board's funding policy requires that employer contributions be equal to the sum of the employer normal cost (which pays the current year cost of benefits accruing) and an amortization of the UAAL in equal installments.

No membership growth is anticipated in setting the contributions. This is consistent with GASB #25, which prohibits anticipating membership growth in determining the Annual Required Contribution ("ARC").

Progress Toward Realization of Financing Objectives

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a Plan's funded status. In the absence of benefit improvements, it should increase over time, until it reaches 100%. The combined funded ratio for all Plans decreased by 4.2% from the preceding year to 79.2%, primarily due to fiscal 2012 investment returns of 0.7% being below the actuarial assumed rate of 7.0%, delayed recognition of prior asset losses from fiscal 2009 in the Actuarial Value of Assets, a decrease in the discount rate from 7.0% to 6.75%, and an update to the mortality table assumption.

Benefit Provisions

The benefit provisions reflected in the valuation reports are those which were in effect at June 30, 2012, as set forth in the related Indiana statutes. None of the Plans had any material changes in benefit provisions since the 2011 valuation; however, a 13th Check was provided to retirees in PERF and EG&C in lieu of a Cost-of-Living Adjustment.



Assets and Member Data

The valuations were based on asset values of the trust funds and member census data as of June 30, 2012. All asset information and member data were provided by INPRS. While certain checks for reasonableness were performed, the data was used unaudited. The accuracy of the results presented in the reports is dependent upon the accuracy and completeness of the underlying asset and census information.

Actuarial Assumptions and Methods

The majority of the actuarial assumptions used in the June 30, 2012 valuations were adopted by the Board pursuant to the Experience Studies completed in September 2011, which reflected the experience period from July 1, 2005 through June 30, 2010, and were first used in the June 30, 2011 valuation. The actuarial assumptions for interest rate and mortality were updated for the June 30, 2012 valuation. The actuarial assumptions and methods are summarized in the Actuarial Assumptions and Methods section of each valuation report. We believe the actuarial assumptions and methods are reasonable for the purposes of the valuation reports and comply with the parameters set forth in Statements No. 25 and No. 27 of the Governmental Accounting Standards Board ("GASB"). Different assumptions and methods may be reasonable for other purposes. As such, the results presented in the valuation reports should only be relied upon for the intended purpose.

Certification

We certify that the information presented herein is accurate and fairly portrays the actuarial position of each Plan administered by INPRS as of June 30, 2012 based on the underlying census data, asset information and selected assumptions and methods.

This report contains the required accounting information to be included in the Comprehensive Annual Financial Report. This information has been prepared in accordance with our understanding of Governmental Accounting Standards No. 25 and No. 27 (as amended by No. 50). This report does not contain accounting information prepared in accordance with Governmental Accounting Standards No. 67 and No. 68, which will become effective for financial statements for fiscal years beginning after June 15, 2013.

To the best of our knowledge this actuarial statement is complete and accurate and has been prepared in accordance with generally accepted actuarial principles and practice and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with our understanding of the requirements of Indiana state law. The undersigned actuaries are members of the Society of Actuaries and other professional organizations, including the American Academy of Actuaries, and meet the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States relating to pension plans. There is no relationship between the PwC practitioners involved in this engagement and INPRS that may impair our objectivity.

This document was not intended or written to be used, and it cannot be used, for the purpose of avoiding U.S. federal, state, or local tax penalties. This includes penalties that may apply if the transaction that is the subject of this document is found to lack economic substance or fails to satisfy any other similar rule of law. This document has been prepared pursuant to an engagement letter between INPRS and PwC, and is intended solely for the use and benefits of INPRS and not for reliance by any other person.

Respectfully submitted,

Ms. Cindy Fraterrigo

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Cindy Draturgo

Enrolled Actuary (No. 11-06229)

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HIGHLIGHTS OF THE ACTUARY'S REPORT

This report presents the results of the actuarial valuation of the Judges' Retirement System ("JRS") and has been prepared to present the current funded status of the Plan, contribution requirements for fiscal year 2014 (July 1, 2013 through June 30, 2014), and certain financial statement disclosure information. The valuation was performed using census data for plan members as of June 30, 2012 provided by INPRS, asset information as of June 30, 2012 provided by INPRS, the actuarial assumptions and methods approved by the Board and summarized in Section V, and the plan provisions effective June 30, 2012 as summarized in Section VI.

Contributions

JRS is a State appropriated fund. All employer contributions are made by the State of Indiana. The annual required contribution will increase from \$25,458,485 for fiscal 2013 to \$28,189,815 for fiscal 2014. In addition, a contribution in the amount of \$90,187,160 will be made after June 30, 2012 pursuant to HB 1376.

Members of JRS contribute 6% of their compensation during their first 22 years of membership. If a JRS member terminates employment with less than 8 years of service, the accumulated contributions with interest can be withdrawn as a lump sum or the member may direct the JRS to make a direct rollover of the distribution amount. When a member becomes vested, the member's account balance may not be refunded and is instead combined with the employee contributions in order to fund the member's future retirement annuity benefit.

Funded Status

The funded status of JRS is measured by the funded ratio, which is the ratio of the assets available for benefits to a benefit liability measure for JRS. While there are several such measures that could be appropriately used, the benefit liability measure that ties most closely to your funding strategy is the Actuarial Accrued Liability ("AAL").

Using the Actuarial Value of Assets ("AVA"), an asset value that smoothes the market gains and losses over four (4) years, JRS AAL funded ratio decreased from 62.1% at June 30, 2011 to 59.4% at June 30, 2012. The decrease is primarily due to the decrease in discount rate, updated mortality table and recognition of asset experience and demographic losses.

Investment Experience

The assets of JRS are commingled with the assets of other funds administered by INPRS. The overall INPRS return on the commingled funds was 0.7% during fiscal 2012. Based on the value of assets allocated to JRS as of the prior valuation date and contribution and benefit payment activity during the year, the allocation of returns to JRS represent a return of approximately 0.2% on market value and 2.6% on actuarial value. The return on actuarial value is different due to the smoothing of returns greater or less than expected returns over four years.

Cost-of-Living Adjustment

Benefits for retired members increase automatically based on the annual pay increase granted for the position the member held at the time of retirement. The annual cost-of-living assumption for the valuation is 4.0%, which is the same as the salary increase assumption for active members. A cost-of-living increase of 2.2% took effect on July 1, 2012.

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HIGHLIGHTS OF THE ACTUARY'S REPORT (CONTINUED)

Changes in Actuarial Assumptions

For the June 30, 2012 valuation, the Board approved the following assumption changes:

- The interest rate assumption was decreased from 7.0% to 6.75%.
- The mortality table was changed from the 2008 IRS Static Mortality projected five (5) years with Scale AA to the 2013 IRS Static Mortality projected five (5) years with Scale AA.

Changes in Plan Provisions

It is our understanding that there were no changes to the Plan or underlying status that impacted the pension benefits during the fiscal year.

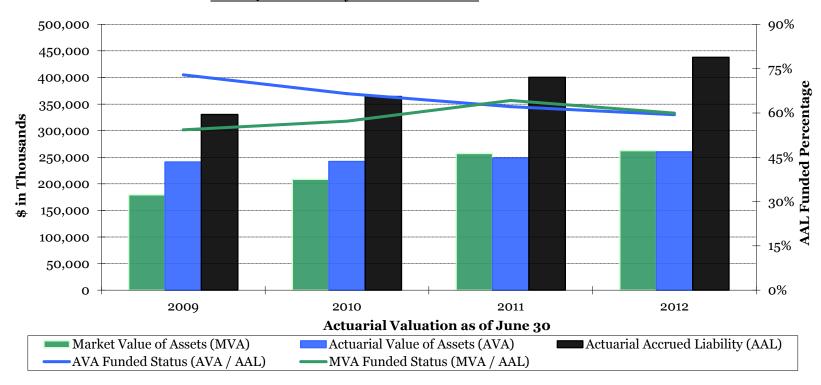
Changes in Actuarial Methods

There have been no changes in actuarial methods since the June 30, 2011 valuation.

<u>SECTION I - EXECUTIVE SUMMARY</u>

HISTORICAL SUMMARY

JRS - 4 Year History of Funded Status 1



Actuarial Valuation as of June 30:	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
Actuarial Accrued Liability (AAL)	\$330,551.2	\$364,122.7	\$400,273.5	\$437,854.5
Actuarial Value of Assets (AVA)	240,953.9	242,142.8	248,623.3	260,096.4
Market Value of Assets (MVA)	179,428.1	208,395.2	256,985.8	262,325.7
Unfunded Liability (AAL - AVA)	89,597.3	121,979.9	151,650.2	177,758.1
AVA Funded Status (AVA / AAL)	72.9%	66.5%	62.1%	59.4%
MVA Funded Status (MVA / AAL)	54.3%	57.2%	64.2%	59.9%

¹ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

HISTORICAL SUMMARY (CONTINUED)

Summary of Valuation Results 1, 2

Valuation Date	 June 30, 2009	June 30, 2010	June 30, 2011	June 30, 2012
Estimated State Appropriations				
Normal Cost (Beginning of Year)	\$ 10,425,527	\$ 11,567,716	\$ 15,281,754	\$ 16,084,589
Amortization of Unfunded Actuarial Accrued Liability	7,134,782	9,515,365	11,873,696	13,705,127
Interest Adjustment ³	636,561	-	-	-
Employee Contributions	 (2,120,001)	(2,173,160)	 (2,678,007)	(2,684,888)
Estimated State Appropriations	\$ 16,076,869	\$ 18,909,921	\$ 24,477,443	\$ 27,104,828
<u>Fiscal Year</u>	2011	 2012	2013	 2014
State Appropriations ⁴	\$ 19,199,927	\$ 18,896,172	\$ 111,415,160	\$ 20,894,732

 $^{^{1}}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

² The contribution amounts shown were developed on a <u>funding</u> basis only and do not reflect accounting requirements.

³ Valuation results prior to June 30, 2010 included an interest adjustment to the middle of the year because the payroll used for computing contribution rates was not discounted to the beginning of the year.

⁴ An additional contribution in the amount of \$90,187,160 will be made after June 30, 2012 pursuant to HB 1376.

HISTORICAL SUMMARY (CONTINUED)

Summary of Valuation Results (Continued) 1

	Ju	ne 30, 2009	Ju	ne 30, 2010	Ju	ne 30, 2011	Ju	ne 30, 2012
Census Information								
Active								
Number		288		291		363		361
Average Age		54.1		55.0		54.3		54.9
Average Years of Service		8.7		9.5		8.3		8.9
Covered Payroll of Actives	\$	36,195,775	\$	36,721,919	\$	45,764,278	\$	45,138,370
Inactive - Vested								
Number		83		73		66		72
Average Age				60.7		61.0		61.1
Average Years of Service				18.4		18.1		18.6
Inactive - Non-Vested ²								
Number				31		31		28
Retiree/Beneficiary/Disabled								
Number		293		298		310		311
Average Age				75.3		75.1		75.4
Annual Benefits Payable	\$	15,229,582	\$	15,389,828	\$	16,787,212	\$	17,027,599

 $^{^{1}}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

 $^{^{2}}$ For June 30, 2012, inactive non-vested members entitled to a refund of their member contributions totaling \$439,300.

HISTORICAL SUMMARY (CONTINUED)

Summary of Valuation Results (Continued) 1

	Ju	ıne 30, 2009	June 30, 2010		June 30, 2011		June 30, 201	
Actuarial Accrued Liability								
ASA Account Balance	\$	21,649,000	\$	23,137,615	\$	24,359,001	\$	27,699,555
Retiree/Beneficiary/Disabled		170,962,026		182,023,263		198,796,748		205,340,787
Active and Inactive		137,940,181		158,961,853		177,117,795		204,814,117
Total	\$	330,551,207	\$	364,122,731	\$	400,273,544	\$	437,854,459
Actuarial Value of Assets (AVA)								
ASA Account Balance	\$	21,649,000	\$	23,137,615	\$	24,359,001	\$	27,699,555
Retiree/Beneficiary/Disabled		170,962,026		182,023,263		198,796,748		205,340,787
Active and Inactive		48,342,855		36,981,965		25,467,608		27,056,065
Total	\$	240,953,881	\$	242,142,843	\$	248,623,357	\$	260,096,407
Market Value of Assets (MVA)								
ASA Account Balance	\$	21,649,000	\$	23,137,615	\$	24,359,001	\$	27,699,555
Retiree/Beneficiary/Disabled		157,779,055		182,023,263		198,796,748		205,340,787
Active and Inactive				3,234,360		33,830,004		29,285,340
Total	\$	179,428,055	\$	208,395,238	\$	256,985,753	\$	262,325,682
Unfunded Actuarial Accrued Liability: AAL - A	VA							
ASA Account Balance	\$	-	\$	-	\$	-	\$	-
Retiree/Beneficiary/Disabled		-		-		-		-
Active and Inactive		89,597,326		121,979,888		151,650,187		177,758,052
Total	\$	89,597,326	\$	121,979,888	\$	151,650,187	\$	177,758,052
Funded Percentage								
ASA Account Balance		100.0%		100.0%		100.0%		100.0%
Retiree/Beneficiary/Disabled		100.0%		100.0%		100.0%		100.0%
Active and Inactive		35.0%		23.3%		14.4%		13.2%
Total		72.9%		66.5%		62.1%		59.4%
Summary of Assumptions								
Valuation Interest Rate		7.25%		7.0%		7.0%		6.75%
Salary Scale		4.0%		4.0%		4.0%		4.0%
Cost-of-Living Assumption		4.0%		4.0%		4.0%		4.0%

 $^{^{\}rm 1}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

FUNDING

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A. Development of Funded Status

			J	June 30, 2011		June 30, 2012	
1.	Actuarial Accru	ed Liability				_	
	a. Annuity Sa	vings Account	\$	24,359,001	\$	27,699,555	
	b. Retirees, E	eneficiaries, and Disableds		198,796,748		205,340,787	
	c. Actives an	d Inactives		177,117,795		204,814,117	
	d. Total: (1)(a) + (1)(b) + (1)(c)	\$	400,273,544	\$	437,854,459	
2.	Actuarial Value	of Assets					
	a. Annuity Sa	vings Account	\$	24,359,001	\$	27,699,555	
	b. Retirees, E	eneficiaries, and Disableds		198,796,748		205,340,787	
	c. Actives an	d Inactives		25,467,608		27,056,065	
	d. Total: (2)	(a) + (2)(b) + (2)(c)	\$	248,623,357	\$	260,096,407	
3.	Unfunded Actua	arial Accrued Liability					
	a. Annuity Sa	vings Account: (1)(a) - (2)(a)	\$	-	\$	-	
	b. Retirees, E	eneficiaries, and Disableds: (1)(b) - (2)(b)		-		-	
	c. Actives an	d Inactives: (1)(c) - (2)(c)		151,650,187		177,758,052	
	d. Total: (1)(d) - (2)(d)	\$	151,650,187	\$	177,758,052	
4.	Funded Percent	age					
	a. Annuity Sa	vings Account: (2)(a) / (1)(a)		100.0%		100.0%	
	b. Retirees, E	eneficiaries, and Disableds: (2)(b) / (1)(b)		100.0%		100.0%	
	c. Actives an	d Inactives: (2)(c) / (1)(c)		14.4%		13.2%	
	d. Total: (2)	d) / (1)(d)		62.1%		59.4%	

B. Unfunded Actuarial Accrued Liability Reconciliation

			Jı	ıne 30, 2011	June 30, 2012		
1.	Uni	funded Actuarial Accrued Liability, Prior Year	\$	121,979,888	\$	151,650,187	
2.	Uni	funded Actuarial Accrued Liability (Gain) / Loss					
	a.	Actuarial Value of Assets Experience	\$	16,372,415	\$	17,654,755	
	b.	Actuarial Accrued Liability Experience		(1,274,320)		707,995	
	c.	Additional Liability Due to Cost-of-Living Adjustments		-		(7,143,624) 1	
	d.	Additional Liability Due to Changes in Actuarial Assumptions		16,215,052		16,978,081 2	
	e.	Additional Liability Due to Changes in Plan Provisions		_		_	
	f.	Total New Amortization Bases:	\$	31,313,147	\$	28,197,207	
		(2)(a) + (2)(b) + (2)(c) + (2)(d) + (2)(e)					
	g.	Reduction in Existing Bases Due to Prior Year Amortization, Net of Interest		(1,642,848)		(2,089,342)	
	h.	Change in Unfunded Actuarial Accrued Liability:	\$	29,670,299	\$	26,107,865	
		(2)(f) + (2)(g)					
3.	Uni	funded Actuarial Accrued Liability, Current Year: (1) + (2)(h)	\$	151,650,187	\$	177,758,052	

¹ A Cost-of-Living Adjustment (COLA) of 2.2% was effective as of July 1, 2012, rather than the assumed COLA of 4.0%.

² Assumption changes include the change in discount rate from 7.0% to 6.75% and change in mortality table from the 2008 IRS Static Mortality projected five (5) years with Scale AA to the 2013 IRS Static Mortality projected five (5) years with Scale AA.

C. Actuarial Accrued Liability Reconciliation

1.	June 30, 2011 Actuarial Accrued Liability	\$ 400,273,544	
2.	Normal Cost	15,281,754	
3.	Actual Benefit Payments	16,746,050	
4.	Interest of 7.0% on (1) + (2) - $(3)/2$	28,502,759	
5.	Expected June 30, 2012 Actuarial Accrued Liability:	\$ 427,312,007	
	(1) + (2) - (3) + (4)		
		Dollar Change	Percent Change
		 in Liability	in Liability
6.	(Gain)/Loss Components		
	a. Census	\$ 707,995	0.2%
	b. Cost-of-Living Adjustment ¹	(7,143,624)	(1.7%)
	c. Assumption Changes ²	 16,978,081	4.0%
	d. Total: $(6)(a) + (6)(b) + (6)(c)$	\$ 10,542,452	2.5%
7.	Actual June 30, 2012 Actuarial Accrued Liability: (5) + (6)(d)	\$ 437,854,459	

¹ A Cost-of-Living Adjustment (COLA) of 2.2% was effective as of July 1, 2012, rather than the assumed COLA of 4.0%.

² Assumption changes include the change in discount rate from 7.0% to 6.75% and change in mortality table from the 2008 IRS Static Mortality projected five (5) years with Scale AA to the 2013 IRS Static Mortality projected five (5) years with Scale AA.

D. Reconciliation of Market Value of Assets

			une 30, 2011	June 30, 2012		
1.	Market Value of Assets, Prior June 30	\$	208,395,238	\$	256,985,753	
2.	Receipts					
	a. Employer Contributions	\$	19,199,927		18,896,172	
	b. Member Contributions		3,491,929		2,467,769	
	c. Investment Income and Dividends Net of Fees		40,732,132		506,778	
	d. Security Lending Income Net of Fees		138,032		87,656	
	e. Transfers In		1,280,746		257,237	
	f. Miscellaneous Receipts		<u>-</u>		1,593	
	g. Total Receipts: $(2)(a) + (2)(b) + (2)(c) + (2)(d) + (2)(e) + (2)(f)$	\$	64,842,766	\$	22,217,205	
3.	Disbursements					
	a. Benefits Paid During the Year	\$	16,087,428	\$	16,727,365	
	b. Refund of Contributions and Interest		5,293		18,685	
	c. Administrative and Project Expenses		159,530		131,226	
	d. Transfers Out		-		-	
	e. Miscellaneous Disbursements					
	f. Total Disbursements: $(3)(a) + (3)(b) + (3)(c) + (3)(d) + (3)(e)$	\$	16,252,251	\$	16,877,276	
4.	Market Value of Assets, Current June 30: $(1) + (2)(g) - (3)(f)$	\$	256,985,753	\$	262,325,682	
5.	Market Value of Assets Approximate Annual Rate of Investment Return		19.2%		0.2%	

E. Reconciliation of Actuarial Value of Assets

1.	Market Value of Assets, June 30, 2011	\$ 256,985,753
2.	Market Value of Assets, June 30, 2012	262,325,682
3.	 Expected Earnings/Expenses a. Expected Investment Earnings at 7.0% on June 30, 2011 Market Value b. Expected Receipts and Investment Earnings at 7.0% c. Expected Disbursements and Investment Expenses at 7.0% 	17,989,003 22,379,568 17,332,162
4.	Expected Assets, June 30, 2012: (1) + $(3)(a)$ + $(3)(b)$ - $(3)(c)$	\$ 280,022,162
5.	2011-2012 Gain/(Loss): (2) - (4)	(17,696,480)
6.	Smoothing of Gain/(Loss) Year Gain/(Loss) % Unrecognized a. 2011-2012 \$ (17,696,480) 75% b. 2010-2011 25,847,171 50% c. 2009-2010 10,312,197 25%	(13,272,360) 12,923,586 2,578,049
7.	Preliminary Actuarial Value of Assets, June 30, 2012: (2) - (6)(a) - (6)(b) - (6)(c)	\$ 260,096,407
8.	Corridor a. 120% of Market Value b. 80% of Market Value	314,790,818 209,860,546
9.	Actuarial Value of Assets, June 30, 2012	\$ 260,096,407
10.	Actuarial Value of Assets as a Percent of Market Value: (9) / (2)	99.2%
11.	Actuarial Value of Assets Approximate Annual Rate of Investment Return	2.6%

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F. Contribution Rate

			ıne 30, 2011	June 30, 2012	
Develop	oment of Annual Required Contribution:				
1.	Current Payroll	\$	45,764,278	\$	45,138,370
2.	Normal Cost (Beginning of Year)				
	a. Amount	\$	15,281,754	\$	16,084,590
	b. Percentage of Payroll		33.39%		35.64%
3.	Unfunded Actuarial Accrued Liability (UAAL) Annual Amortizations				
	a. Amount	\$	11,873,696	\$	13,705,127
	b. Percentage of Payroll		25.95%		30.36%
4.	Expected Employee Contributions ¹				
	a. Amount	\$	2,678,007	\$	2,684,888
	b. Percentage of Payroll		5.85%		5.95%
5.	Annual Required Contribution Rate: (2)(b) + (3)(b) - (4)(b)		53.49%		60.05%
6.	Estimated Annual Required Contribution Amount				
	a. Fiscal Year Beginning		July 1, 2012		July 1, 2013
	b. Anticipated Payroll: (1) $x [(1 + 4.0\%)]$	\$	47,594,849	\$	46,943,905
	c. Amount: $(5) \times (6)(b)^{2,3}$	\$	25,458,485	\$	28,189,815
Develo	oment of Funding Rate:				
7.	Contribution received after June 30, 2012 pursuant to HB 1376				90,187,160
8.	UAAL Amortization Assuming HB 1376 Contribution is included in June 30, 201	2 Assets ⁴			
	a. Amount				6,692,263
	b. Percentage of Payroll				14.82%
9.	Funding Rate Reflecting HB 1376: (2)(b) - (4)(b) + (8)(b)				44.51%
10.	Estimated Funding Amount Reflecting HB 1376: (9) x (6)(b)			\$	20,894,732
Approv	ed Funding Amount:	\$	21,228,000 ⁵	\$	20,894,732

Only members with less than 22 years of service contribute to the plan. Current payroll for active members with less than 22 years of service as of June 30, 2012 is \$44,748,130.

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² Since the fiscal year to which contributions apply begins one year after the valuation date, the Annual Required Contribution Amount is estimated by assuming payroll will increase 4.0% per year and then applying the Annual Required Contribution Rate computed at the valuation date.

³ JRS is a State appropriated fund. Employer contribution amounts are expected to be paid by the State of Indiana.

⁴ Reduction in funding rate if \$90,187,160 of contributions received after June 30, 2012 pursuant to HB 1376 are included in assets as of June 30, 2012 and existing UAAL bases are reduced ratably due to the excess contribution.

⁵ Does not reflect \$90,187,160 of contributions received after June 30, 2012 pursuant to HB 1376.

G. Unfunded Actuarial Accrued Liability Amortization Schedule 1

	Date Base Established	Reason	 Remaining Unfunded	Remaining Period	A	mortization Amount
1.	6/30/2009	Actuarial Experience	\$ 85,775,346	24	\$	6,852,744
2.	6/30/2010	Actuarial Experience and Changes in Actuarial Assumptions	32,803,846	28	\$	2,471,057
3.	6/30/2011	Actuarial Experience and Changes in Actuarial Assumptions	30,981,653	29	\$	2,305,902
4.	6/30/2012	Actuarial Experience and Changes in Actuarial Assumptions	 28,197,207	30	\$	2,075,424
	Total		\$ 177,758,052		\$	13,705,127

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 $^{^{\}rm 1}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

H. Approximate Investment Return for Year Ending June 30, 2012

		Market Value of Assets	Actuarial Value of Assets
1.	Balance, beginning of year	\$ 256,985,753	\$ 248,623,357
2.	Balance, end of year	262,325,682	260,096,407
3.	Total increase: (2) - (1)	5,339,929	11,473,050
4.	Contributions and Transfers In	21,622,771	21,622,771
5.	Benefit payments and Transfers Out	16,746,050	16,746,050
6.	Net additions: (4) - (5)	4,876,721	4,876,721
7.	Net investment increase: (3) - (6)	463,208	6,596,329
8.	Average assets: $[(1) + (2) - (7)] / 2$	259,424,114	251,061,718
9.	Approximate rate of return: $(7) / (8)^{1}$	0.2%	2.6%

I. Historical Investment Experience

3. 1. 2. Approximate Annual Rate of Investment Return **Actuarial Assumed** Market Basis **Actuarial Basis Interest Rate** Year Ending June 30 5.3% (1.0%) 2003 2004 16.1% 3.3% 9.6% 7.0% 2005 10.5% 15.1% 2006 18.0% 15.8% 2007 7.25% (8.2%)8.3% 7.25% 2008 (21.7%) (1.0%) 7.25% 2009 12.9% (1.7%)7.25% 2010 19.2% (0.6%)7.0% 2011 0.2% 2.6% 7.0% 2012

¹ Net of expenses.

K. Interest Rate Sensitivity

The investment return assumption (discount rate), as required by GASB, should be based on an estimated long-term investment yield for the plan, with consideration given to the nature and mix of current and expected plan investments. Management and the Board continually monitor the investment rate of return assumption and the Board formally reviews the assumption and makes changes as appropriate. The Board changed the assumption for the June 30, 2012 valuation from 7.0% to 6.75%.

To illustrate the importance of the investment rate of return, which is used to discount the actuarial liabilities of the Plan, the funded status and ARC Rate (for the fiscal year beginning July 1, 2013) are shown below at 6.75% (the current assumption), 6.0% (a three-fourths of a percent decrease), 6.5% (a one-fourth of a percent increase), and 8.0% (a one and one-fourth of a percent increase).

	0.75% Decrease: (6.0%)	0.25% Decrease: (6.5%)	Current Assumption: (6.75%)	0.75% Increase: (7.5%)	1.25% Increase: (8.0%)
Funded Status					
Actuarial Accrued Liability	478,012,136	450,640,101	437,854,459	402,722,114	381,710,956
Actuarial Value of Assets	260,096,407	260,096,407	260,096,407	260,096,407	260,096,407
Unfunded Actuarial Accrued Liability	\$217,915,729	\$190,543,694	\$177,758,052	\$142,625,707	\$121,614,549
Funded Ratio	54.4%	57.7%	59.4%	64.6%	68.1%
Annual Required Contribution Rate					
Normal Cost Percentage	41.29%	37.40%	35.64%	30.94%	28.24%
UAAL Amortization Percentage	34.54%	31.76%	30.36%	26.18%	23.40%
Expected Employee Contribution Percentage	5.95%	5.95%	5.95%	5.95%	5.95%
Annual Required Contribution Percentage	69.88%	63.21%	60.05%	51.17%	45.69%

ACCOUNTING

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REQUIRED SUPPLEMENTARY INFORMATION UNDER GASB #25 AND #27

A. Assumptions and Methods Under GASB #25 and #27

Under the Governmental Accounting Standards Board (GASB) Statements No. 25 and No. 27, as amended by GASB No. 50, certain information about the plan is required to be disclosed. The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date June 30, 2012

Actuarial Cost Method Entry Age Normal (Level Percent of Payroll)

Amortization Method Level Dollar

Amortization Period 30 Years, Closed

Actuarial Value of Assets 4-Year Smoothed Market Value with 20% Corridor

Actuarial Assumptions:

Investment Rate of Return 6.75%

Future Salary Increases 4.0% (includes 3.0% wage inflation)

Cost-of-Living Increases 4.0% (tied to salary scale)

B. Membership Data

The plan consisted of the following membership as of June 30, 2012, the date of the latest actuarial valuation:

Retired members, beneficiaries and disabled members receiving benefits:	311
Terminated vested plan members entitled to but not yet receiving benefits:	72
Terminated non-vested plan members entitled to a distribution of contributions:	28
Active Plan Members:	361
Total membership:	772

REQUIRED SUPPLEMENTARY INFORMATION UNDER GASB #25 AND #27 (CONTINUED)

C. Statement of Fiduciary Net Position

1.	Ass	eets	
	a.	Cash	\$ 105,494
	b.	Securities Lending Collateral	11,915,331
	c.	Receivables	
		i. Contributions Receivable	\$ 98,539
		ii. Miscellaneous Receivables	48,549
		iii. Investments Receivable	-
		iv. Interest and Dividends	-
		v. Due From Other Funds	
		vi. Total Receivables	\$ 147,088
	d.	Total Investments	262,113,191
	e.	Net Capital Assets	3,768
	f.	Total Assets: $(1)(a) + (1)(b) + (1)(c)(vi) + (1)(d) + (1)(e)$	\$ 274,284,872
2.	Lial	bilities	
	a.	Accounts Payable	\$ 16,978
	b.	Retirement Benefits Payable	-
	c.	Salaries and Benefits Payable	-
	d.	Investments Payable	-
	e.	Securities Lending Obligations	11,915,331
	f.	Securities Sold Under Agreement to Repurchase	-
	g.	Due To Other Funds	26,881
	h.	Total Liabilities: $(2)(a) + (2)(b) + (2)(c) + (2)(d) + (2)(e) + (2)(f) + (2)(g)$	\$ 11,959,190
3.	Net	t Assets Held in Trust for Pension Benefits: (1)(f) - (2)(h)	\$ 262,325,682

REQUIRED SUPPLEMENTARY INFORMATION UNDER GASB #25 AND #27 (CONTINUED)

D. Statement of Changes in Fiduciary Net Position

1.	Net Assets as of June 30, 2011	\$ 256,985,753
2.	Revenue (Additions)	
	a. Contributions	
	i. Member Contributions	\$ 2,467,769
	ii. Employer Contributions	18,896,172
	iii. Other Contributions	
	iv. Total Contributions	\$ 21,363,941
	b. Investment Income/Loss	
	i. Investment Income/Loss	\$ 1,749,560
	ii. Securities Lending Income	93,538
	iii. Securities Lending Expenses	(5,882)
	iv. Other Investment Expenses	 (1,242,782)
	v. Net Investment Income	\$ 594,434
	c. Other Additions	
	i. Interfund Transfers	\$ 257,237
	ii. Miscellaneous Receipts	1,593
	iii. Total Other Additions	\$ 258,830
	d. Total Revenue (Additions): $(2)(a)(iv) + (2)(b)(v) + (2)(c)(iii)$	\$ 22,217,205
3.	Expenses (Deductions)	
	a. Pension and Disability Benefits	\$ 16,727,365
	b. Death, Survivor, and Funeral Benefits	-
	c. Distributions of Contributions and Interest	18,685
	d. Interfund Transfers	-
	e. Pensions Relief Distributions	-
	f. Local Unit Withdrawals	-
	g. Administrative and Project Expenses	 131,226
	h. Total Expenses (Deductions): $(3)(a) + (3)(b) + (3)(c) + (3)(d) + (3)(e) + (3)(f) + (3)(g)$	\$ 16,877,276
4.	Changes in Net Assets Held in Trust for Pension Benefits: (2)(d) - (3)(h)	\$ 5,339,929
5.	Net Assets as of June 30, 2012: (1) + (4)	\$ 262,325,682

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REQUIRED SUPPLEMENTARY INFORMATION UNDER GASB #25 AND #27 (CONTINUED)

E. Schedule of Funding Progress 1

	2.		3.		4.	5.		6.	7.	
	Actuarial	Actuarial Accrued		Unf	unded Actuarial	AAL Funded		Current	UAAL as a	
V	alue of Assets	Li	ability (AAL)	Accrue	d Liability (UAAL)	Ratio	Payroll		% of Payroll	
1					(3) - (2)	(2)/(3)			(4) / (6)	
\$	211,746,513	\$	283,995,165	\$	72,248,652	74.6%	\$	29,712,252	243.2%	
	234,880,522		338,748,983		103,868,461	69.3%		33,729,411	307.9%	
240,953,881	330,551,207			89,597,326	72.9%		36,195,775	247.5%		
	242,142,843		364,122,731		121,979,888	66.5%		36,721,919	332.2%	
	248,623,357		400,273,544		151,650,187	62.1%		45,764,278	331.4%	
	260,096,407		437,854,459		177,758,052	59.4%		45,138,370	393.8%	
		Actuarial Value of Assets \$ 211,746,513 234,880,522 240,953,881 242,142,843 248,623,357	Actuarial Act Value of Assets Li \$ 211,746,513 \$ 234,880,522 240,953,881 242,142,843 248,623,357	Actuarial Actuarial Accrued Liability (AAL) \$ 211,746,513 \$ 283,995,165 234,880,522 338,748,983 240,953,881 330,551,207 242,142,843 364,122,731 248,623,357 400,273,544	Actuarial Accrued Unformation Value of Assets	Actuarial Value of Assets Actuarial Accrued Liability (AAL) Unfunded Actuarial Accrued Liability (UAAL) \$ 211,746,513 \$ 283,995,165 \$ 72,248,652 234,880,522 338,748,983 103,868,461 240,953,881 330,551,207 89,597,326 242,142,843 364,122,731 121,979,888 248,623,357 400,273,544 151,650,187	Actuarial Value of AssetsActuarial Accrued Liability (AAL)Unfunded Actuarial Accrued Liability (UAAL)AAL Funded Ratio\$ 211,746,513\$ 283,995,165\$ 72,248,65274.6%234,880,522338,748,983103,868,46169.3%240,953,881330,551,20789,597,32672.9%242,142,843364,122,731121,979,88866.5%248,623,357400,273,544151,650,18762.1%	Actuarial Value of Assets Actuarial Accrued Liability (AAL) Unfunded Actuarial Accrued Liability (UAAL) AAL Funded Ratio \$ 211,746,513 \$ 283,995,165 \$ 72,248,652 74.6% \$ 234,880,522 338,748,983 103,868,461 69.3% 240,953,881 330,551,207 89,597,326 72.9% 242,142,843 364,122,731 121,979,888 66.5% 248,623,357 400,273,544 151,650,187 62.1%	Actuarial Value of AssetsActuarial Accrued Liability (AAL)Unfunded Actuarial Accrued Liability (UAAL)AAL Funded RatioCurrent Payroll\$ 211,746,513\$ 283,995,165\$ 72,248,65274.6%\$ 29,712,252234,880,522338,748,983103,868,46169.3%33,729,411240,953,881330,551,20789,597,32672.9%36,195,775242,142,843364,122,731121,979,88866.5%36,721,919248,623,357400,273,544151,650,18762.1%45,764,278	

F. Schedule of Employer Contributions 1

1. Year Ending June 30	2. nual Required ribution (ARC) ²	Emplo	3. Actual yer Contribution	4. % of ARC		
				(3) / (2)		
2007	\$ 12,249,490	\$	14,661,552	119.7%		
2008	10,028,371		15,920,268	158.8%		
2009	16,131,121		20,861,106	129.3%		
2010	16,076,869		18,630,651	115.9%		
2011	18,909,921		19,199,927	101.5%		
2012	19,664,441		18,896,172	96.1%		

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 $^{^{1}}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

² Starting with the year ending June 30, 2012, the ARC amount shown is based on the ARC Rate developed in the actuarial valuation completed one year prior to the beginning of the year multiplied by projected payroll.

REQUIRED SUPPLEMENTARY INFORMATION UNDER GASB #25 AND #27 (CONTINUED)

G. Development of Net Pension Obligation (NPO)

1.		2.		3.	4.	5.		6.		7.		8.		9.		10.
Year		Annual		Interest						Actual		NI		PO at		
Ending		Required		on NPO at	ARC	Amortization	N	Net Pension		Employer		Change	Beg	inning		NPO at
June 30	Cont	ribution (ARC)	Di	iscount Rate	 Adjustment	Factor		Cost (NPC)	C	ontribution	ution in NPO		of	Year	1	End of Year
					 (9) / (5)		(2	2) + (3) - (4)				(6) - (7)				(8) + (9)
2010	\$	16,076,869	\$	(1,870,282)	\$ (2,203,196)	11.7089	\$	16,409,783	\$	18,630,651	\$	(2,220,868)	(2	5,796,998)	\$	(28,017,866)
2011		18,909,921		(1,961,250)	(2,257,866)	12.4090		19,206,537		19,199,927		6,610	(2	8,017,866)		(28,011,256)
2012		19,664,441		(1,960,788)	(2,257,334)	12.4090		19,960,987		18,896,172		1,064,815	(2	8,011,256)		(26,946,441)

H. Three-Year Trend Information

1.	2.			3⋅	4.			
Year				Actual				
Ending	N	Net Pension		Employer				
June 30		Cost (NPC)	C	ontribution		% of NPC		
						(3)/(2)		
2010	\$	16,409,783	\$	18,630,651		113.5%		
2011		19,206,537		19,199,927		100.0%		
2012		19,960,987		18,896,172		94.7%		

I. Solvency Test ¹
Portion of Actuarial Liability Provided by Assets
(\$ in Thousands)

1. 2.		3.	4. Non-Retired	5∙ Total Actuarial	6.
As of	ASA	Retired and	Members (Employer	Accrued	Actuarial Value
June 30	Balances	Beneficiaries	Financed Portion)	Liabilities	of Assets
2007	21,276,000	143,645,324	119,073,841	283,995,165	211,746,513
	100.0%	100.0%	39.3%	74.6%	
2008	22,243,000	155,177,081	161,328,902	338,748,983	234,880,522
	100.0%	100.0%	35.6%	69.3%	
2009	21,649,000	170,962,026	137,940,181	330,551,207	240,953,881
	100.0%	100.0%	35.0%	72.9%	
2010	23,137,615	182,023,263	158,961,853	364,122,731	242,142,843
	100.0%	100.0%	23.3%	66.5%	
2011	24,359,001	198,796,748	177,117,795	400,273,544	248,623,357
	100.0%	100.0%	14.4%	62.1%	
2012	27,699,555	205,340,787	204,814,117	437,854,459	260,096,407
	100.0%	100.0%	13.2%	59.4%	

 $^{^{\}rm 1}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

CENSUS DATA

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A. Reconciliation of Participant Data

Inactive Non-Vested With Member

		7710111001					
	Actives	Contribution Balance	Inactive Vested	Disabled	Retired	Beneficiary	Total
PwC Total as of June 30, 2011	363	31	66	1	214	95	770
New Entrants	13	-	-	-	-	-	13
Rehires	-	-	-	-	-	-	-
Non-Vested Terminations	-	-	-	-	-	-	-
Vested Terminations	(10)	-	10	-	-	-	-
Retirements	(1)	-	(4)	-	5	-	-
Disablements	(1)	(1)	-	2	-	-	-
Death with Beneficiary	-	-	-	-	(7)	7	-
Death without Beneficiary	-	-	-	-	(1)	(5)	(6)
Refunds	(1)	(2)	-	-	-	-	(3)
Data Adjustments	(2)				(1)	1	(2)
Total as of June 30, 2012	361	28	72	3	210	98	772

B. Census Information

		Jun	e 30, 2011	Ju	ne 30, 2012
1.	Active				
	a. Number		363		361
	b. Average Age		54.3		54.9
	c. Average Years of Service		8.3		8.9
	d. Covered Payroll of Actives	\$	45,764,278	\$	45,138,370
2.	Inactive - Vested				
	a. Number		66		72
	b Average Age		61.0		61.1
	c. Average Years of Service		18.1		18.6
3.	Inactive - Non-Vested ¹				
	a. Number		31		28
4.	Retiree/Beneficiary/Disabled				
	a. Number		310		311
	b. Average Age		75.1		75.4
	c. Annual Benefits Payable	\$	16,787,212	\$	17,027,599

¹ For June 30, 2012, inactive non-vested members entitled to a refund of their member contributions totaling \$439,300.

C. Schedule of Active Member Valuation Data 1

1.	2.		3.		4.	5.
		A	Annual			Annual
As of	Active	1	Payroll	4	Average	Percent
June 30	Members	(\$ in '	Thousands)		Pay	Increase
					(3) / (2)	
2005	282	\$	32,231	\$	114,293	22.3%
2006	274		34,065		124,323	8.8%
2007	258		29,712		115,164	(7.4%)
2008	267		33,729		126,327	9.7%
2009	288		36,196		125,680	(0.5%)
2010	291		36,722		126,192	0.4%
2011	363		45,764		126,072	(0.1%)
2012	361		45,138		125,037	(0.8%)

¹ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

D. Schedule of Retirees, Beneficiaries, and Disabled Members ¹

1.	2.	3.	4.	5.	6.	7.	8.	9.
	Ad	lded	Ren	noved	End of Year ²			
		Annual		Annual		Annual	% Increase in	Average
Year Ending		Allowances		Allowances		Allowances	Annual	Annual
June 30	Number	(\$ in Thousands)	Number	(\$ in Thousands)	Number	(\$ in Thousands)	Allowances	Allowances
2005	13	\$ 667	11	\$ 374	264	\$ 12,272	24.5%	\$ 46,485
2006	12	868	7	474	269	12,983	5.8%	48,266
2007	18	976	8	409	279	13,899	7.1%	49,819
2008	23	1,257	26	991	276	14,754	6.1%	53,455
2009	74	3,744	57	1,835	293	15,230	3.2%	51,978
2010	11	627	6	339	298	15,390	1.1%	51,644
2011	21	1,452	9	200	310	16,787	9.1%	54,152
2012	7	444	6	194	311	17,028	1.4%	54,751

 $^{^{\}rm 1}$ Valuation results prior to June 30, 2010 were calculated by the prior actuary.

² End of year annual allowances are not equal to the prior end of year annual allowances plus addition and less removals because of reductions for beneficiary benefits, data changes, and cost-of-living increases.

E. Distribution of Active Members by Age and Service

Attained		Distribution of Active Members by Age and Service as of June 30, 2012									
Age	Under 1 year	1 to 4 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 39 years	Over 40 years	Total
<25											
25-29											
30-34			1								1
35-39	2	8	4								14
40-44	2	25	8	2							37
45-49	2	16	19	6	1						44
50-54	1	27	19	17	1						65
55-59		16	24	17	22	5					84
60-64	1	12	20	15	13	10					71
65-69		5	7	12	6	4					34
70&Up	1		4	2	3	1					11
Total	9	109	106	71	46	20					361

F. Distribution of Inactive Vested Members by Age and Service

Attained	Distribution of Inactive Vested Members by Age and Service as of June 30, 2012							
Age	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 29 years	Over 30 years	Total
<25								
25-29								
30-34								
35-39								
40-44								
45-49			2	1	1			4
50-54		2	5		2			9
55-59		1	2	3	9			15
60-64		1	3	6	12	1		23
65-69		1	1	2	8			12
70&Up					9			9
Total		5	13	12	41	1		72

G. Distribution of Retired Members, Beneficiaries, and Disabled Members by Age and Number of Years Retired ¹

Attained	Distribution	of Retired Memb	ers, Beneficiaries	, and Disabled M	embers by Age ar	nd Number of Yea	rs Retired as of J	
Age	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 29 years	Over 30 years	Total
<40								
40-44								
45-49								
50-54								
55-59	2							2
60-64	27							27
65-69	45	22		2			1	70
70-74	11	22	13					46
75-79	4	6	33	12		1	2	58
80-84	1	2	4	17	3	2	1	30
85-89		1	3	5	19	8	2	38
90&Up				4	6	9	21	40
Total	90	53	53	40	28	20	27	311

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¹ Seven of the members do not have a date of retirement. For these members we assumed they retired at the earlier of June 30, 2012 and 65.

H. Schedule of Benefit Recipients by Type of Benefit Option

1977 System	

	Number of Benefit Recipients by Benefit Option as of June 30, 2012					
Amount of Monthly Benefit	Retiree Single Life Annuity	Retiree 50% Joint and Survivor Annuity	Survivors	Disabled	Total	
\$ 1-500	0	0	0	0	0	
501 - 1,000	0	0	0	0	0	
1,001 - 1,500	0	0	34	0	34	
1,501 - 2,000	1	0	11	0	12	
2,001 - 3,000	3	7	23	0	33	
over 3,000	14	126	14	0	154	
Total	18	133	82	0	233	

1985 System

	Number of Benefit Recipients by Benefit Option as of June 30, 2012						
Amount of Monthly Benefit	Retiree Single Life Annuity	Retiree 50% Joint and Survivor Annuity	Survivors	Disabled	Total		
\$ 1-500	0	0	0	0	0		
501 - 1,000	0	0	0	0	0		
1,001 - 1,500	0	0	4	0	4		
1,501 - 2,000	0	1	4	0	5		
2,001 - 3,000	0	1	6	0	7		
over 3,000	1	56	2	3	62		
Total	1	58	16	3	78		

SECTION IV - CENSUS DATA

I. Schedule of Average Benefit Payments as of June 30, 2012 1

						1977 Pl	lan							
						Yea	rs of	Credited Ser	rvice	<u>}</u>			_	
	0-4 5-9 10-14 15-19 20-24 25-29 30+								Total					
Average Monthly Defined Benefit	\$	2,348	\$	2,206	\$	3,941	\$	4,839	\$	5,073	\$ 6,434	\$ 6,224	\$	4,435
Average Final Average Salary	\$	57,224	\$	104,482	\$	117,268	\$	109,347	\$	111,517	\$ 111,708	\$ 122,579	\$	111,951
Number of Benefit Recipients		48		15		33		31		51	31	24		233
Г							_							
						1985 P	lan							

		Years of Credited Service														
		0-4		5-9		10-14		15-19		20-24		25-29		30+		Total
Average Monthly Defined Benefit Average Final Average Salary	\$ \$	3,907 100,518	\$ \$	3,104 106,483	\$	4,069 110,912	\$ \$	5,292 119,169	\$ \$	6,082 127,835	\$	3,918	ф.	6,364	\$ \$	4,605 115,674
Number of Benefit Recipients		7		4		34		17		12		3		1		78

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¹ For some members average salary at retirement and years of credited service was not available. The average salary for each group excludes these members. Members with credited service information that is missing are counted in the "o-4" group.

ACTUARIAL ASSUMPTIONS AND METHODS

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A. Actuarial Assumptions

The assumptions used in the valuation were selected and approved by the INPRS Board of Trustees. The demographic assumptions are reviewed every five years through a study of actual experience. In this way, the actuary provides guidance to the Board in selecting the assumptions. The actuary and other economic and investment professionals also provide advice to the Board for selecting the economic assumptions. In our opinion, the assumptions are reasonable for purposes of this valuation.

Interest Rate / Investment Return 6.75% (net of administrative and investment expenses)

Future Salary Increases 4.0% per year

Inflation 3.0% per year

Cost of Living Increases 4.0% per year in deferral and retirement

Mortality (Healthy and Disabled) 2013 IRS Static Mortality projected five (5) years with Scale AA

Disability 1964 OASDI Table. Illustrative rates shown below:

Age	Rate
20	0.060%
25	0.085%
30	0.110%
35	0.147%
40	0.220%
45	0.360%
50	0.606%
55	1.009%
60	1.627%
65+	0.000%

A. Actuarial Assumptions (continued)

Termination

Based on 2005-2010 experience. Rates shown below:

Age	Rate
20-37	4%
38-65	7%
66+	4%

Retirement

Based on 2005-2010 experience. Rates shown below:

Age	Rate	Age	Rate
55-61	20%	65	50%
62	25%	66-74	30%
63	15%	<i>7</i> 5+	100%
64	10%		

Decrement Timing

Decrements are assumed to occur at the beginning of the year.

Spouse/Beneficiary

90% of members are assumed to be married or to have a dependent beneficiary. Male members are assumed to be four (4) years older than their spouses and female members are assumed to be two (2) years younger than their spouses.

Data Assumptions

Actives and inactives with no date of birth and/or no gender are assumed to be age 57 and/or male. Spouse gender is assumed to be the opposite gender of the member.

Retirees and disabled members with an unknown marital status are assumed to be married. Retirees and disabled members that are not married are assumed to be receiving a single life annuity. Retirees and disabled members that are married are assumed to elect a 50% joint and survivor annuity.

A. Actuarial Assumptions (continued)

Changes in Assumptions

For the June 30, 2012 valuation, the Board approved the following assumption changes:

- The interest rate assumption was decreased from 7.0% to 6.75%.
- The mortality table was changed from the 2008 IRS Static Mortality projected five (5) years with Scale AA to the 2013 IRS Static Mortality projected five (5) years with Scale AA.

B. Actuarial Methods

The actuarial methods used in this valuation were selected and approved by the Board. In general, the methods provide orderly funding of all benefits being accrued, as well as unfunded past-service benefit liabilities, over a period of thirty years. However, the smoothing method employed in determining the Actuarial Value of Assets may accelerate or lengthen the effective funding period, depending on whether gains or losses are experienced. In our opinion, the actuarial methods are reasonable for the purposes of this valuation.

1. Actuarial Cost Method

The actuarial cost method is Entry Age Normal - Level Percent of Payroll.

The normal cost is calculated separately for each active member and is equal to the level percentage of payroll needed as an annual contribution from entry age to retirement age to fund projected benefits. The actuarial accrued liability on any valuation date is the accumulated value of such normal costs from entry age to the valuation date.

Gains and losses occurring from census experience different than assumed, assumption changes, and benefit changes are amortized over a 30-year period with level payments each year. A new gain or loss base is established each year based on the additional gain or loss during that year and that base is amortized over a new 30-year period. The purpose of the method is to give a smooth progression of the costs from year to year and, at the same time, provide for an orderly funding of the unfunded liabilities.

2. Asset Valuation Method

Actuarial Value of Assets is equal to a four-year smoothing of gains and losses on the Market Value of Assets, subject to a 20% corridor.

3. Changes in Actuarial Methods

There have been no changes in actuarial methods since the June 30, 2011 valuation.

SUMMARY OF PLAN PROVISIONS

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Summary of Plan Provisions

The benefit provisions for the JRS are set forth in IC 33-38-6, 33-38-7, and 33-38-8. A summary of those defined pension benefit provisions is presented below:

Participation All individuals serving as a judge or justice in Indiana as defined in IC 33-38-6-7. A judge who begins service

before September 1, 1985 shall be a participant of the 1977 System (IC 33-38-7) and a judge who begins

service after August 31, 1985 shall be a participant of the 1985 System (IC 33-38-8).

Eligibility for Defined Pension Benefits

a. Normal Retirement Earliest of:

- Age 65 with 8 or more years of creditable service

- Age 55 with sum of age and creditable service equal to 85 or more

b. Early Retirement Age 62 with 8 or more years of creditable service

c. Late Retirement Subject to continued employment after normal retirement

d. Disability Retirement A participant is considered disabled if two (2) physicians certify that the participant is totally incapacitated from

earning a livelihood and that the condition is likely to be permanent

e. Termination 8 or more years of creditable service and no longer active (i.e. vested inactive)

f. Pre-Retirement Death 8 or more years of creditable service entitled to a future benefit

Summary of Plan Provisions (continued)

Amount of Benefits

a. Normal Retirement

The normal retirement benefit is a monthly annuity payable for life with a 50% continuation (or \$12,000 annually, if greater) to a surviving spouse or surviving dependent children. The benefit is equal to a percentage of earnings¹ in accordance with the following table:

Years of Service	Percentage
7 or less	0%
8	24%
9	27%
10	30%
11	33%
12	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

An additional percentage shall be calculated by prorating between applicable percentages, based on the number of months in a partial year of service.

¹ Earnings is the annual salary being paid for the office which the participant held at the time of separation from service.

Summary of Plan Provisions (continued)

Amount of Benefits (continued)

b. Early Retirement

The early retirement benefit is the accrued retirement benefit determined as of the early retirement date and payable commencing at the normal retirement date. A participant may elect to have the benefit commence prior to age 65 provided the benefit is reduced by 0.1% for each month that the benefit commencement date precedes age 65.

c. Late Retirement

The late retirement benefit is calculated in the same manner as the normal retirement benefit. Creditable service and earnings earned after normal retirement is included in the computation.

d. Disability Retirement

The disability retirement benefit is payable for the duration of the disability commencing the month following disability date with reduction for early commencement. The amount of monthly benefit shall be equal to a percentage of average monthly earnings in accordance with the following table:

Years of Service	Percentage
12 or less	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

An additional percentage shall be calculated by prorating between applicable percentages, based on the number of months in a partial year of service.

Summary of Plan Provisions (continued)

Amount of Benefits (continued)

e. Termination The termination benefit is the accrued retirement benefit determined as of the termination date and payable commencing as of the normal retirement date. The participant may elect to receive a reduced

early retirement benefit.

f. Death Benefit If death occurs (a) while receiving benefits, (b) while in service as a judge with 8 or more years of service,

or (c) while permanently disabled, the spouse or family of dependent children shall be eligible for a benefit equal to the greater of \$12,000 (effective July 1, 1977) annually or 50% of the benefit the participant was

receiving or was entitled to receive at the time of death.

Spousal benefits are payable as a lifetime monthly pension.

g. Post-Retirement Participant benefits in the Judges 1977 Retirement, Disability, and Death System increase in the same

ratio as the salary being paid for the office a participant held at the time of separation from service increases. Effective January 1, 2010, the Judges 1985 Retirement, Disability, and Death System will also

have benefits increase in the same manner, on a prospective basis only.

Member Contributions Each participant contributes 6% of his total salary until completion of 22 years of service.

Forms of Payment

a. Single Life Member will receive a monthly benefit for life, but there are no monthly payments to anyone after death.

Annuity

Benefit Increases

b. Joint with One-Half Member will be paid a monthly benefit for life. After death, one-half (1/2) of the benefit will be paid to the Survivor Benefits spouse for their lifetime or the dependent until age 18 unless disabled. If the dependent child was named the

beneficiary, once they are no longer entitled to the benefit, the spouse would receive the benefit for life.

Summary of Plan Provisions (continued)

Withdrawal from Fund If member's employment is terminated prior to eligibility for a retirement annuity, the member may withdraw

their contributions from the Fund.

Cost-of-Living Adjustments Benefits for retired members increase automatically based on the annual pay increase granted for the position

the member held at the time of retirement. The annual cost-of-living assumption for the valuation is 4.0%,

which is the same as the salary increase assumption for active members.

Changes in Provisions No changes since prior valuation.

Definitions of Technical Terms

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Definitions of Technical Terms

Actual Rate

For valuations prior to June 30, 2011, the contribution rate expressed as a percentage of covered payroll on an annual basis (not less than 0.0%) that is the result of applying applicable smoothing rules to the prior year Actual Rate and current year Actuarially Calculated Rate. Beginning with the June 30, 2011 valuation,

the Board resolved to discontinue use of the smoothing rules for establishing contribution rates/amounts.

Actuarial Accrued Liability

(AAL)

That portion, as determined by a particular Actuarial Cost Method, of the Present Value of Future Benefits (PVFB) and expenses which is not provided for by future Normal Costs. Generally this means the portion of the PVFB attributable to past service.

Actuarial Assumptions Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal,

disablement and retirement; changes in compensation and Government provided pension benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other

relevant items.

Actuarial Cost Method A procedure for determining an actuarially equivalent allocation of the Present Value of Future Benefits to

time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.

Actuarially Equivalent A method of making the actuarial present value of two series of payments equal as of a given date using the

same assumptions.

Actuarial Gain/(Loss) The difference between actual unfunded Actuarial Accrued Liability and anticipated unfunded Actuarial

Accrued Liability — during the period between two valuation dates. It is a measurement of the difference

between actual and expected experience.

Actuarial Present Value The single amount now that is equal to a payment or series of payments in the future. It is determined by

discounting future payments at predetermined rates of interest and by probabilities of payment.

Actuarial Valuation The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value

of Assets, and related Actuarial Present Values for a pension plan.

Definitions of Technical Terms (continued)

Actuarial Valuation Date The date as of which an actuarial valuation is performed.

Actuarially Calculated Rate The precise actuarial contribution rate expressed as a percentage of covered payroll that is determined by

summing the Normal Cost and amortization of unfunded Actuarial Accrued Liability and dividing by anticipated

payroll.

Amortization The payment of a present value financial obligation on an installment basis over a future number of years.

Annual Required Contribution The employer's periodic required contributions to a defined benefit pension plan, calculated in accordance with

the plan provisions, actuarial assumptions, actuarial cost method and other actuarial method prescribed by

Governmental Accounting Standards No. 25 and No. 27.

Creditable Service Service credited under the system that was rendered before the date of the actuarial valuation.

Funding Policy The program for the amounts and timing of contributions to be made by plan members, employer, and other

contributing entities (for example, state government contributions to a local government plan) to provide the

benefits specified by a pension plan.

Level Dollar Amortization Method The amount to be amortized is divided into equal dollar amounts to be paid over a given number of years; part of

each payment is interest and part is principal (similar to a mortgage payment on a building). Because payroll can be expected to increase as a result of inflation, level dollar payments generally represent a decreasing percentage

of payroll; in dollars adjusted for inflation, the payments can be expected to decrease over time.

Normal Cost (NC) That portion of the present value of future benefits which is allocated to a valuation year by the Actuarial Cost

Method. The normal cost is specific to the cost method used.

Plan Assets Resources, usually in the form of stocks, bonds, and other classes of investments, that have been segregated and

restricted in a trust, or equivalent arrangement, in which (a) employer contributions to the plan are irrevocable, (b) assets are dedicated to providing benefits to retirees and their beneficiaries, and (c) assets are legally

protected from creditors of the employer(s) or plan administrator, for the payment of benefits in accordance with

the terms of the plan.

of the Employer (ARC)

Definitions of Technical Terms (continued)

Plan Members

The individuals covered by the terms of a pension plan. The plan membership generally includes employees in active service, terminated employees who have accumulated benefits but are not yet receiving them, and retired employees and beneficiaries currently receiving benefits.

Present Value of Future Benefits (PVFB) Projected benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members upon retirement) as a result of their service through the valuation date and their expected future service. The actuarial present value of projected future benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment (taking into account mortality, turnover, probability of participating in plan retirement, etc.). Alternatively, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay the projected benefits when due.